

CLAIMS

1. Multi-carrier receiver adapted to receive a multi-carrier signal  
and to demodulate data symbols from a set of carriers that constitute  
5 said multi-carrier signal, said multi-carrier receiver comprising antenna  
selection means to select at least two carriers (A31, A32) as antennas for  
estimation of characteristics of a narrowband disturber (RFI-Signal-3):

CHARACTERISED IN THAT said antenna selection means is adapted  
to select said at least two antennas (A31, A32) amongst all carriers  
10 located inside a predetermined frequency band (RFI-Band) wherein  
power spectral density of said multi-carrier signal has to stay below a  
threshold value, and at least two carriers (C1, C2) located outside said  
predetermined frequency band (RFI-Band).

15 2. Multi-carrier receiver according to claim 1,

CHARACTERISED IN THAT said multi-carrier receiver further  
comprises antenna reservation means, adapted to reserve said at least  
two carriers (C1, C2) located outside said predetermined frequency band  
(RFI-Band) by assigning a substantially low amount of power and data  
20 bits to said at least two carriers (C1, C2).

3. Multi-carrier receiver according to claim 1 or claim 2,

CHARACTERISED IN THAT said at least two carriers (C1, C2) are  
located at an equal distance of respective edges of said predetermined  
25 frequency band (RFI-Band).

4. Multi-carrier receiver according to claim 3,

CHARACTERISED IN THAT said distance equals 17 times 4.3125  
kHz.